

CLAIMS

1. (Currently Amended) A herbicidal synergistic composition for soil-applied, preemergent application comprising, in addition to customary inert formulation excipients, a mixture of
 - a) at least one acetamide selected from ~~diphenamid, napropamide, acetochlor, butachlor, dimethachlor, dimethenamid, dimethenamid-P, fentazamide, metazachlor, metolachlor, pethoxamid, propachlor, propisochlor, S-metolachlor, thionylchlor, and flufenacet~~; and
 - b) a synergistically active amount of a lipophilic additive comprising at least one member selected from the group consisting of C13-C20 fatty acids, C13-C20 fatty alcohols and hydrocarbon fluids containing greater than 50 wt.% paraffins.
2. (Original) The herbicidal composition of claim 1 wherein the ratio (wt/wt) of a) to b) is 90:1 to 1.5:1.
3. (Cancelled)
4. (Previously Presented) The herbicidal composition of claim 1 wherein the acetamide comprises a mixture of the (S) and (R) isomers of metolachlor in the ratio of 50-100% (S) to 50-0% (R).
5. (Original) The herbicidal composition of claim 1 wherein the lipophilic additive is saturated.
6. (Original) The herbicidal composition of claim 5 wherein the lipophilic additive comprises stearic acid.
7. (Original) The herbicidal composition of claim 5 wherein the lipophilic additive comprises stearyl alcohol.
8. (Original) The herbicidal composition of claim 1 wherein the lipophilic additive comprises a hydrocarbon fluid containing greater than 50 wt.% paraffins.
9. (Original) The herbicidal composition of claim 8 wherein the hydrocarbon fluid contains less than 2.0 wt.% aromatic component.
10. (Cancelled)

11. (Original) The herbicidal composition of claim 8 wherein 50-100% wt.% of the paraffins present in the hydrocarbon fluid are iso-paraffins.
12. (Original) The herbicidal composition of claim 11 wherein 90-100% wt.% of the paraffins present in the hydrocarbon fluid are iso-paraffins.
13. (Original) The herbicidal composition of claim 8 wherein at least 95 wt.% of the carbon structures of the hydrocarbon fluids have a carbon number distribution of from C13 to C20.
14. (Original) The herbicidal composition of claim 8 wherein the hydrocarbon fluid comprises a synthetic iso-paraffin fluid.
15. (Original) The herbicidal composition of claim 1 further comprising a safener.
16. (Original) The herbicidal composition of claim 1 further comprising a co-herbicide.
17. (Cancelled)
18. (Original) A method of controlling undesired plant growth in the presence of cultivated plants, which comprises treating the cultivated plants, plant parts, seed or the locus thereof with a herbicidally effective amount of the herbicidal composition according to claim 1.
19. (Original) The method according to claim 18, wherein the cultivated plants are selected from the group consisting of cereals, rape, sugar beet, sugar cane, rice, maize, plantation crops, soybeans and cotton.
20. (Original) The method of claim 18 wherein the cultivated plants comprise transgenic plants or herbicidally tolerant plants created by conventional breeding.
21. (Original) The method according to claim 18 wherein the herbicidally effective amount of the composition is applied to the soil as a preemergent herbicide.
22. (Original) The method of claim 18, which further comprises treating the cultivated plants, plant parts, seed or the locus thereof with a co-herbicide.

23. (Original) The method of claim 22, which comprises treating the cultivated plants, plant parts, seed or the locus thereof at separate times with the herbicidal composition and the co-herbicide.
24. (Original) The method of claim 18, which further comprises treating the cultivated plants, plant parts, seed or the locus thereof with a safener.
25. (Original) The method of claim 24, which comprises treating the cultivated plants, plant parts, seed or the locus thereof at separate times with the herbicidal composition and the safener.
26. (Currently Amended) A herbicidal synergistic composition comprising, in addition to customary inert formulation excipients, a mixture of
- a) at least one acetamide selected from ~~diphenamid, nappropamide,~~ acetochlor, alachlor, butachlor, dimethachlor, ~~dimethenamid, dimethenamid-P, fentrazamide,~~ metazachlor, metolachlor, ~~permethamid,~~ propachlor, propisochlor, S-metolachlor, ~~thienylcholor, and flufenacet;~~ and
 - b) a synergistically active amount of a lipophilic additive comprising at least one member selected from the group consisting of C13-C20 fatty acids, C13-C20 fatty alcohols and hydrocarbon fluids, wherein the hydrocarbon fluid contains less than 2.0 wt.% aromatic component.
27. (Previously Presented) The herbicidal composition of claim 26 wherein the ratio (wt/wt) of a) to b) is 90:1 to 1.5:1.
28. (Previously Presented) The herbicidal composition of claim 26 wherein the acetamide comprises a mixture of the (S) and (R) isomers of metolachlor in the ratio of 50-100% (S) to 50-0% (R).
29. (Previously Presented) The herbicidal composition of claim 26 wherein the lipophilic additive is saturated.
30. (Previously Presented) The herbicidal composition of claim 29 wherein the lipophilic additive comprises stearic acid.
31. (Previously Presented) The herbicidal composition of claim 29 wherein the lipophilic additive comprises stearyl alcohol.

32. (Previously Presented) The herbicidal composition of claim 26 wherein the lipophilic additive comprises a hydrocarbon fluid.
33. (Previously Presented) The herbicidal composition of claim 32 wherein the hydrocarbon fluid contains greater than 50 wt.% paraffins.
34. (Previously Presented) The herbicidal composition of claim 32 wherein 50-100% wt.% of the paraffins present in the hydrocarbon fluid are iso-paraffins.
35. (Previously Presented) The herbicidal composition of claim 34 wherein 90-100% wt.% of the paraffins present in the hydrocarbon fluid are iso-paraffins.
36. (Previously Presented) The herbicidal composition of claim 32 wherein at least 95 wt.% of the carbon structures of the hydrocarbon fluids have a carbon number distribution of from C13 to C20.
37. (Previously Presented) The herbicidal composition of claim 32 wherein the hydrocarbon fluid comprises a synthetic iso-paraffin fluid.
38. (Previously Presented) The herbicidal composition of claim 26 further comprising a safener.
39. (Previously Presented) The herbicidal composition of claim 26 further comprising a co-herbicide.
40. (Previously Presented) The herbicidal composition of claim 26 wherein the herbicidal composition is a soil-applied, preemergent herbicidal composition.